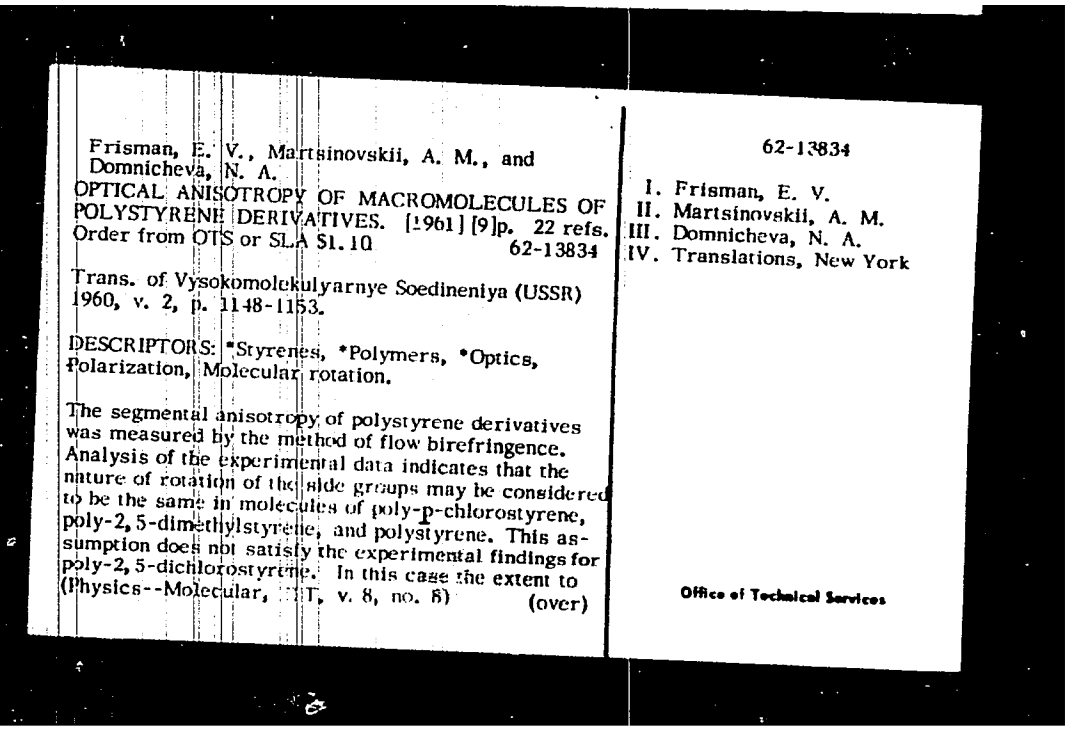
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2



Frisman, E. V., Martsinovskii, A. M., and Domnicheva, N. A.
OPTICAL ANISOTROPY OF MACROMOLECULES OF POLYSTYRENE DERIVATIVES. [1961] [9]p. 22 refs. Order from OTS or SLA $1.10 62-13834

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, p. 1148-1153.

DESCRIPTORS: *Styrenes, *Polymers, *Optics, Polarization, Molecular rotation.

The segmental anisotropy of polystyrene derivatives was measured by the method of flow birefringence. Analysis of the experimental data indicates that the nature of rotation of the side groups may be considered to be the same in molecules of poly-p-chlorostyrene, poly-2, 5-dimethylstyrene, and polystyrene. This assumption does not satisfy the experimental findings for poly-2, 5-dichlorostyrene. In this case the extent to
(Physics--Molecular, ...T, v. 8, no. 8) (over)

62-13834

I. Frisman, E. V.
II. Martsinovskii, A. M.
III. Domnicheva, N. A.
IV. Translations, New York

Office of Technical Services

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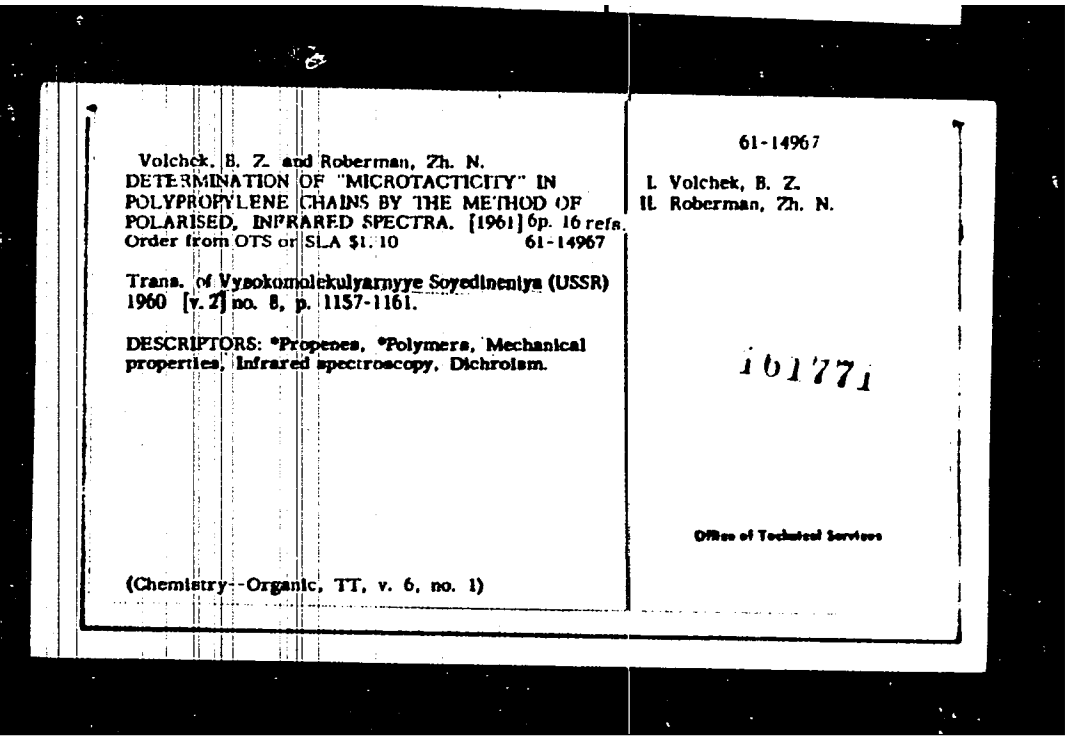

Volchek, B. Z. and Roberman, Zh. N.
DETERMINATION OF "MICROTACTICITY" IN POLYPROPYLENE CHAINS BY THE METHOD OF POLARISED, INFRARED SPECTRA. [1961] 6p. 16 refs.
Order from OTS or SLA $1.10 61-14967

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960 [v. 2] no. 8, p. 1157-1161.

DESCRIPTORS: *Propenes, *Polymers, Mechanical properties, Infrared spectroscopy, Dichroism.

(Chemistry--Organic, TT, v. 6, no. 1)

61-14967

I. Volchek, B. Z.
II. Roberman, Zh. N.

161771

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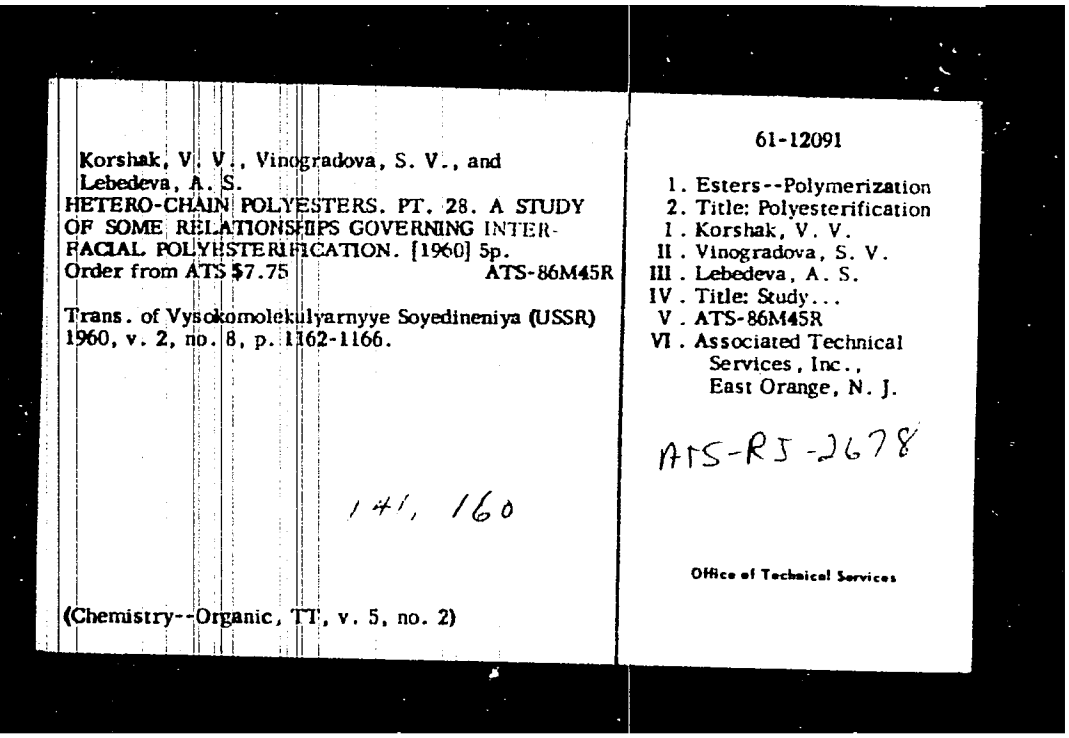

Korshak, V. V., Vinogradova, S. V., and Lebedeva, A. S.
HETERO-CHAIN POLYESTERS. PT. 28. A STUDY OF SOME RELATIONSHIPS GOVERNING INTERFACIAL POLYESTERIFICATION. [1960] 5p.
Order from ATS $7.75 ATS-86M45R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 8, p. 1162-1166.

141, 160

(Chemistry--Organic, TT, v. 5, no. 2)

61-12091

1. Esters--Polymerization
2. Title: Polyesterification
I. Korshak, V. V.
II. Vinogradova, S. V.
III. Lebedeva, A. S.
IV. Title: Study...
V. ATS-86M45R
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-2678

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Shantarovich, P. S. and Shlyapnikova, I. A.
POLYMERIZATION OF CYCLOHEXADIENE. [1961]
[7]p. 3 refs.
Order from OTS or SLA $1.10 62-13767

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 8, p. 1171-1175.

DESCRIPTORS: *Cyclohexadienes, Polymerization, Heat of reaction, Peroxides, Reaction Kinetics.

The polymerization of cyclohexadiene is described for the case when the reaction is initiated by heat and by peroxide. It was established that in thermal initiation the original centers of polymerization are produced as the result of a bimolecular reaction involving the formation of a diradical. The reaction has an extremely low frequency factor. The diradical center vanishes during the autosaturation and cyclization reaction (provided there are no steric hindrances (Chemistry--Organic, TT, v. 7, no. 11) (over)

62-13767

I. Shantarovich, P. S.
II. Shlyapnikova, I. A.
III. Translations, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Tsvetkov, V. N. and Boytsova, N. N.
STEREOREGULARITY AND OPTICAL ANISOTROPY IN POLY(METHYL METHACRYLATE) MOLECULES.
[1960] 12p.
Order from ATS $17.70 ATS-18N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 8, p. 1176-1187.

151582

(Chemistry--Organic, TT. v. 5, no. 8)

61-12762

1. Methyl acrylate--Molecular structure
2. Methyl acrylate--Optical properties
3. Stereochemistry
I. Tsvetkov, V. N.
II. Boytsova, N. N.
III. ATS-18N48R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/KJ-3017

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

CEA-tr-R-1388 Uncl.

INTERACTION DU SOUFRE ET DU CAOUTCHOUC NATUREL SOUS L'ACTION DE RAYONNEMENTS IONISANTS.
(Interaction of Sulfur and Natural Rubber Under the Action of Ionizing Radiations).
Z. N. Tarasova, M. Ya. (Ia.) Kaplunov, V. T. Kozlov, N. A. Klauzen, and B. A. Dogadkin.
Translated into French from Vysokomolekulyarnye Soedineniya, 2: 1201-6(1960). 18p.

Chemistry; Radiation Effects;
Translations MC-40

C-40 NP NSA Dep.(mc); $1.60(fs), $0.80(mf)
N-8 JCL o[redacted]TS

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Zabolotskaya, E. V., Gantmakher, A. R., and Medvedev, S. S.
POLYMERIZATION OF STYRENE BY THE ACTION OF COMPLEX CATALYSTS. [1961] [12]p. 15 refs.
Order from OTS or SLA $1.60 62-13833

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 8] p. 1213-1220.

DESCRIPTORS: *Styrenes, *Polymerization, Catalysts, Titanium compounds, Chlorides, Aluminum compounds, Alkyl radicals, Benzenes, Polymers.

A study was made of the kinetics of styrene polymerization by the action of titanium trichloride and an alkyl aluminum in benzene. The rate of polymerization is proportional to the concentrations of the monomer and the titanium trichloride. The activation energy of the styrene polymerization process is 11 Kcal/mol. The (Chemistry-Organic, TT, v. 7, no. 11) (over)

62-13833

I. Zabolotskaya, E. V.
II. Gantmakher, A. R.
III. Medvedev, S. S.
IV. Translations, New York

Office of Technical Services

6

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

The Role of Oxygen in the Polymerization of Vinylidene Chloride, by G. A. Razuvayev, K. S. Minsker, 15 pp.
RUSSIAN, per, Vysok Soedineniya, Vol II, No 8, 1960, pp 1239-1245.
K-II 10610 a

Sci-Chem
April 64

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Fedotova, O. Ya. and Mao, Bin-tsyuan.
SYNTHESIS AND STUDY OF POLYAMIDOUREAS.
[1960] 7p.
Order from ATS $10.15 ATS-87M45R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 8, p. 1255-1260.

141,150

(Chemistry--Organic, TT, v. 5, no. 2)

61-12078

1. Urea derivatives--Synthesis
2. Amide polymers--Synthesis
I. Fedotova, O. Ya.
II. Mao, B.
III. ATS-87M45R
IV. Associated Technical Services, Inc. East Orange, N. J.

ATS-RJ-2679

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Kolesnikov, G. S., Suprun, A. P. and others.
CARBOCHAIN POLYMERS AND COPOLYMERS. XXVI. POLYMERIZATION AND COPOLYMERIZATION OF 1,1,2-TRICHLOROBUTADIENE-1,3. [1961] 4p. (3 figs. omitted) 1 ref.
Order from OTS or SLA $1.10 61-20641

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 8] p. 1266-1269.

DESCRIPTORS: *Chloroprenes, *Polymers, Polymerization, Copolymerization.

Polymers of 1,1,2-trichlorobutadiene-1,3 were obtained and the dependence of thermomechanical properties on molecular weight was determined. Copolymers of 1,1,2-trichlorobutadiene-1,3 with styrene and methylmethacrylate were studied and the dependence of thermomechanical properties of the copolymers on
(Chemistry--Organic, TT, v. 7, no. 7) (over)

61-20641

I. Kolesnikov, G. S.
II. Suprun, A. P.
III. Title: Polymerization...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Kargin, V. A., Bakeyev, N. F. and others.
ELECTRON-MICROSCOPIC STUDY OF CRYSTAL STRUCTURES OF POLYSTYRENE AND POLYPROPYLENE. [1961] 4p.
Order from ATS $5.25 ATS-17N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 8, p. 1279-1282.

(Chemistry--Organic, TT, v. 5, no. 10)

61-22016

1. Styrene polymers--Crystal structure
2. Propene polymers--Crystal structure
3. Electron microscopy--Applications

I. Kargin, V. A.
II. Bakeyev, N. F.
III. ATS-17N48R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS-PJ-3056

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Mikhaylov, N. V., Gorbacheva, V. O. and others.
INVESTIGATION OF THE STRUCTURE OF POLYAMIDES PREPARED BY INTERFACIAL POLYCONDENSATION. [1960] 5p.
Order from ATS $6.65 ATS-88M45R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 8, p. 1283-1286.

61-12081

1. Amide polymers--
Molecular structure
2. Condensation reactions
I. Mikhaylov, N. V.
II. Gorbacheva, V. O.
III. ATS-88M45R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS-RI-2671

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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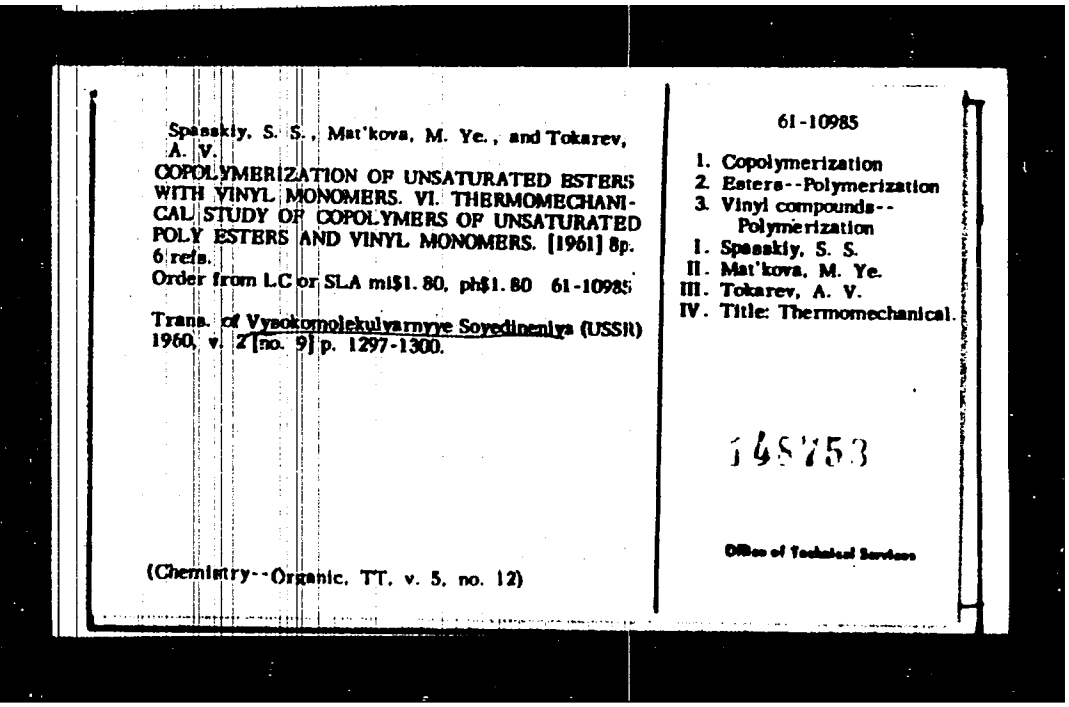

Spasskiy, S. S., Mat'kova, M. Ye., and Tokarev, A. V.
COPOLYMERIZATION OF UNSATURATED ESTERS WITH VINYL MONOMERS. VI. THERMOMECHANICAL STUDY OF COPOLYMERS OF UNSATURATED POLY ESTERS AND VINYL MONOMERS. [1961] 8p. 6 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-10985

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2 [no. 9] p. 1297-1300.

(Chemistry--Organic, TT. v. 5, no. 12)

61-10985

1. Copolymerization
2. Esters--Polymerization
3. Vinyl compounds--Polymerization
I. Spasskiy, S. S.
II. Mat'kova, M. Ye.
III. Tokarev, A. V.
IV. Title: Thermomechanical.

148753

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Dynamic Properties of Viscoelastic Materials During Anharmonic Loading, by L. S. Prisis.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, No 9, 1960, pp 1309-1319. 966614

*ATIC MCL 820/1

Sci - Chem

2 Feb 61

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Spasskiy, S. S. and Molchanova, T. V.
COPOLYMERIZATION OF UNSATURATED POLYESTERS WITH VINYL MONOMERS. X. THERMOMECHANICAL STUDY OF COPOLYMERS OF THREE-COMPONENT SYSTEMS. [1961] 8p. [3 graphs omitted] 12 refs.
Order from OTS or SLA $1.10 61-10984

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2 [no. 9] p. 1320-1323.

DESCRIPTORS: *Copolymerization, Polymers, *Esters, *Vinyl radicals, *Ethylenes, Glycols, Styrenes, Acetates, Methyl radicals, Fumaric acids, Adipic acids.

(Chemistry--Organic, TT. v. 6, no. 2)

61-10984

I. Spasskiy, S. S.
II. Molchanova, T. V.
III. Title: Thermomechanical...

108556

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Investigation of the Strength Characteristics of Polymers at High Deformation Rates, by V. E. Gul'.

RUSSIAN, per, Vysokomolekulyarnye Soyed, Vol III, No 11, 1960, pp 1616-1619.

NLL/RO3 1961

ATS 193,836

Sci - Chem

Apr 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Menchik, Z.
SOME COMMENTS ON THE CRYSTAL STRUCTURE OF POLYACRYLONITRILE. [1961] [5]p. 6 refs.
Order from OTS or SLA $1.10 62-13768

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 11] p. 1635-1638.

DESCRIPTORS: *Acrylonitriles, Polymers, *Crystal structure, Diffraction, Density.

According to the literature polyacrylonitrile is said to have unit cells of hexagonal structure. It has been established that a hexagonal unit cell must be rejected for several reasons. Owing to the poorly defined diffraction pattern (all the equatorial reflections are extremely weak, except for two, with blurred diffraction spots on the other layer lines), the unit diffraction cell cannot be described with certainty. The observed par- (Chemistry-Organic, TT, v. 7, no. 10) (over)

62-13768

I. Menchik, Z.
II. Translations, New York

ATS

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Preparation and Polymerization of Unsaturated Compounds Containing Metals, by M. M. Koton, T. M. Kaseleva, F. S. Florinskiy, 8 pp.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol II, No 11, 1960, pp 1639-1644.

CIA/FDD XX-1049
NOT RELEASABLE TO FOREIGN NATIONALS

ATS 166,452

Sci - Chem

Sep 61

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Lanovskaya, L. M., Gantmakher, A. R., and Medvedev, S. S.
POLYMERIZATION OF ETHYLENE WITH THE COMPLEX CATALYST α-$TiCl_3$-AlR_3 IN THE PRESENCE OF VARIOUS MONOMERS. II. SOME ASPECTS OF THE MECHANISM OF POLYMERIZATION IN THE PRESENCE OF COMPLEX CATALYSTS. [1961]
[5]p. 14 refs.
Order from OTS or SLA $1.10 62-13838

Trans. of Vysokomolekulyarne Soedineniya (USSR) 1960, v. 2 [no. 11] p. 1655-1658.

DESCRIPTORS: *Ethylenes, *Polymerization, *Catalysts, Butadienes, Isoprenes, Styrenes, *Titanium compounds, Chlorides, *Aluminum compounds.

(Chemistry--Organic, TT, v. 7, no. 11) (over)

62-13838

I. Lanovskaya, L. M.
II. Gantmakher, A. R.
III. Medvedev, S. S.
IV. Title: Some ...
V. Translations, New York

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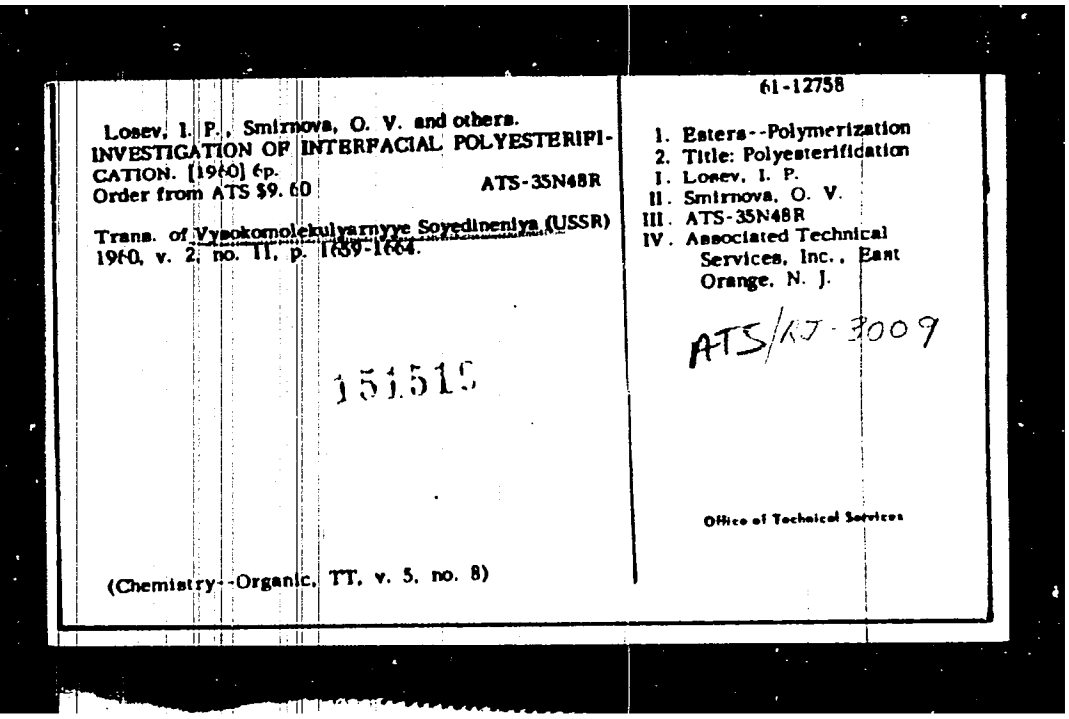

Losev, I. P., Smirnova, O. V. and others.
INVESTIGATION OF INTERFACIAL POLYESTERIFICATION. [1960] 6p.
Order from ATS $9.60 ATS-35N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 11, p. 1659-1664.

151515

(Chemistry--Organic, TT, v. 5, no. 8)

61-12758

1. Esters--Polymerization
2. Title: Polyesterification
I. Losev, I. P.
II. Smirnova, O. V.
III. ATS-35N48R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/KJ-3009

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

R-771-N

Adhesion of Polymers, VII Adhesion of Carboxyl-Containing Copolymers to Various Substitutes, by S. S. Voyutskiy, et al.

RUSSIAN, per, Vysekemolekilarnye Soyedineniya, Vol II, No 11, 1960, pp 1671-1677.

*JPRS for Picatinny Arsenal

ATS

Sci - Phys

13 Oct 61

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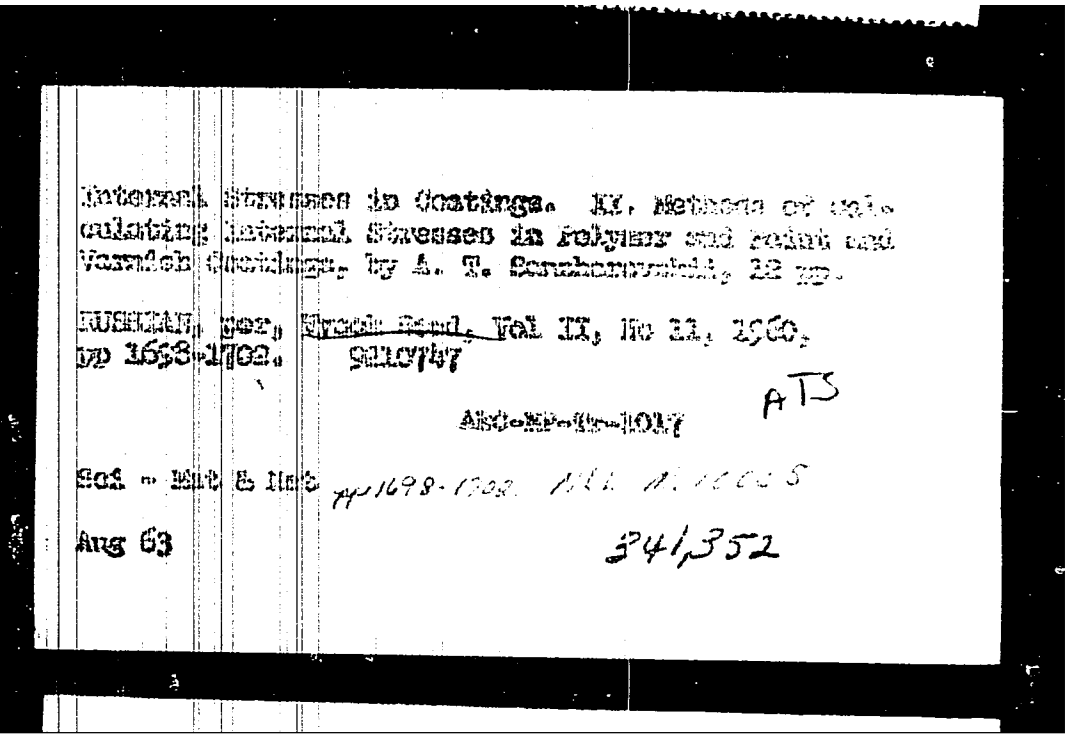

Internal Stresses in Coatings. II. Methods of calculating Internal Stresses in Polymer and Paint and Varnish Coatings, by A. T. Sonnhammarbild, 22 pp.

RUSSIAN, per, Progr Rasd, Vol II, No 11, 1960, pp 1693-1702. Sil0747

ATS

Abstr-(b)-10147

Sol - Mat & Mfg

Aug 63

341,352

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Internal Stresses in Coatings, II, Experimental Methods of Studying Internal Stresses in Polymer and Paint and Varnish Coatings, by A. T. Samsonovskiy, G. I. Epifanov, 17 4 p.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol II, No 11, 1960, pp 1703-1708.

MiL M 10084

Sci - M/M
May 63

AEC-NP-TR-[illegible] 229,854
(92 10747)

ATS

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Internal Stresses in Coatings III, Study of Internal Stresses in Gelatin and Acetyl Cellulose Films Applied to Solid Backings, by A. T. Sanzharovskiy, G. I. Epifanov, 15 pp.

RUSSIAN, pam, Vysokomolekulyarnye Soedineniya, Vol II, No 11, 1960, pp 1709-1714.

ATS

MLL M 10089

AEC-NP-TR-1017

(9210747) 229,855

Sci - M/M
May 63

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Konstantinopol'skaya, M. B., Berstneva, Z. Ya., and Kargin, V. A.
HELICAL STRUCTURES OF POLYETHYLENE.
[1961] [5]p. 5 refs.
Order from OTS or SLA $1.10 62-13989

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 11] p. 1714-1716.

DESCRIPTORS: *Ethylenes, *Polymers, Microanalysis, Microstructure, Electron microscopy.

Secondary structures of polyethylene, exhibiting a helical structure, have been obtained. (Author)

(Chemistry--Organic, TT, v. 7, no. 11)

62-13989

I. Konstantinopol'skaya, M. B.
II. Berstneva, Z. Ya.
III. Kargin, V. A.
IV. Translations, New York

ATS

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Kolesnikov, G. S. and Tazen, Khan-min.
CARBON-CHAIN POLYMERS AND COPOLYMERS. XXVIII. PREPARATION OF GRAFT COPOLYMERS BY THE REACTION OF POLY(METHL METHACRYLATE) AND POLY(ETHYLENE AZELATE). [1960] 6p.
Order from ATS $8.00 ATS-13N49R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 11, p. 1717-1721.

151541

(Chemistry--Organic, TT, v. 5, no. 8)

61-12764

1. Polymers--Synthesis
2. Copolymerization--Analysis
3. Acrylates--Polymerization
4. Ethylenes--Polymerization
5. Title: Graft copolymers
I. Kolesnikov, G. S.
II. Tazen, Khan-min
III. ATS-13N49R
IV. Title: Preparation...
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-3013

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Zubov, V. P., Kabanov, V. A. and others.
THE INFLUENCE OF PRESSURE ON THE FORMATION OF THE MICROSTRUCTURE OF POLYMER CHAINS DURING POLYMERIZATION. [1961] 6p.
Order from ATS $8.60 ATS-14N49R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 11, p. 1722-1727.

ATS/RJ-3616

(Chemistry--Organic, TT, v. 5, no. 10)

61-22008

1. Polymers--Microstructure
2. Polymerization--Physical factors
3. Pressure--Physical effects
I. Zubov, V. P.
II. Kabanov, V. A.
III. ATS-14N49R
IV. Associated Technical Services, Inc., East Orange, N. J.

13482

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Tokareva, L. G., Mikhailov, N. V. and others.
THE PROCESSES AND MECHANISM OF AGING OF SYNTHETIC FIBERS. II. INVESTIGATIONS OF THE STABILIZATION OF POLYAMIDE FIBERS. [1961] 13p.
Order from ATS $13.60 ATS-97N51R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 11, p. 1728-1738.

DESCRIPTORS: *Synthetic fibers, Fibers, *Amides, *Polymers, Aging, Stabilization, Processing.

(Materials--Plastics, TT, v. 6, no. 4)

61-22931

I. Tokareva, L. G.
II. Mikhailov, N. V.
III. ATS-97N51R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS
ATS-RJ-3100

17775

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korotkov, A. A., Mitsengendler, S. P., and Aleev, K. M.
EFFECT OF DIETHYLETHER ON THE COPOLYMERIZATION PROCESS OF BUTADIENE WITH STYRENE. [1963] 7p. 10 refs.
Order from OTS or SLA $1.10 63-18412

Trans. of Vysokomolekulyarnye Soed[ineniya] (USSR). 1960, v. 2 [no. 12] p. 1811-1816.
Another trans. is available from PP in Polymer Science USSR, v. 3, no. 3, $100.00/year.

DESCRIPTORS: *Butadienes, *Styrenes, *Ethyl ethers, Vinyl radicals, Copolymerization, Addition reactions, Catalysts, *Lithium compounds, Butyl radicals.

The effect of diethyl ether on the polymerization kinetics of divinyl and styrene in benzene at 30 C and on the composition of the resultant polymers was investigated. Addition of 0.05 mole/l ether increases the content of styrene units in the copolymer from 13 (Materials--Plastics, TT, v. 10, no. 9) (over)

63-18412

1. Title: Diethyl ether
I. Korotkov, A. A.
II. Mitsengendler, S. P.
III. Aleev, K. M.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korshak, V. V., Sladkov, A. M., and Kudryavtsev, Yu. P.
SYNTHESIS OF POLYMERIC ACETYLENIDES.
[1961] 5p.
Order from ATS $7.50 ATS-[illegible]9R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 12, p. 1824-1827.

(Chemistry--Organic, TT, v. 5, no. 10)

61-22012

1. Acetylene polymers--Synthesis
I. Korshak, V. V.
II. Sladkov, A. M.
III. Kudryavtsev, Yu. P.
IV. ATS-87N49R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-2012

[illegible]

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Gluzman, M. Kh., Dashevskaya, B. I., and Bodnya, V. M.
PREPARATION OF POLYETHYLENE OXIDES BY POLYMERIZATION OF ETHYLENE OXIDE. [1961] [10]p. 20 refs.
Order from OTS or SLA $1.10 62-13839

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 12] p. 1832-1838.

DESCRIPTORS: *Ethylene oxide, *Polymers, Preparation, Polymerization, Catalysts.

Two methods of preparing polyethylene oxides were developed: by polymerization of ethylene oxide in an autoclave under pressure and by bubbling gaseous ethylene oxide through alkaline solutions of the glycol in apparatus of the column type. The composition of the polyethylene oxides and their properties are determined principally by the ethylene oxide : water and ethylene oxide : glycol ratios. The molar ratio of
(Chemistry--Organic, TT, v. 7, no. 11) (over)

62-13839

I. Gluzman, M. Kh.
II. Dashevskaya, B. I.
III. Bodnya, V. M.
IV. Translations, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Tsen, Khan-min and Kolesnikov, G. S.
CARBON CHAIN POLYMERS AND COPOLYMERS. XXiX. SYNTHESIS OF DIPHILIC GRAFT COPOLYMERS. [1961] [9]p. 8 refs.
Order from CTS or SLA $1.10 62-13769

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 12] p. 1870-1874.

DESCRIPTORS: *Polymers, Synthesis, Copolymerization, Esters, *Acrylic acids.

It has been shown that graft copolymers of the diphilic type may be produced by heating mixtures of methacrylic and 9-hydroxypelargonic acids or of methacrylic acid and the polyhydroxypleargonate in the presence of p-toluenesulfonic acid. The properties of the resultant graft copolymers have been investigated. It has been shown that spherulites are formed in the graft copolymers. (Author) (See also 60-18470, 61-10703, 61-20643)

62-13769

I. Title: Graft polymers
I. Tsen, Khan-min
II. Kolesnikov, G. S.
III. Title: Synthesis ...
IV. Translations, New York

(Chemistry - Organic, ... no. 11)
Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Krozer, S., Vainryb, M., and Silina, L.
ESTIMATION OF THE MOLECULAR WEIGHT DISTRIBUTION OF POLYCARBONATES BY THE METHOD OF TURBIDIMETRIC TITRATION. [1961] 6p.
Order from ATS $9.75 ATS-20N52R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 12, p. 1876-1881.

DESCRIPTORS: *Carbonates, *Polymers, *Molecular weight, Distribution, *Titration.

(Chemistry--Organic, TT, v. 6, no. 4)

63-22943

I. Krozer, S.
II. Vainryb, M
III. Silina, L.
IV. ATS-20N52R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3081
177769

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Investigation of Diffusion Processes in Some Polymers IV. Reversible Changes in Diffusion Characteristics Under Irradiation, by N.S. Tikhomirova, Yu.M. Malinskiy
RUSSIAN, per. Vysokomolekulyarnye Soedineniya
Vol 2, 1960, pp 1349-1359. 9232591
AEC UCRL-Tr-10009

Sci/Chemistry
May 66

300,499

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Mel'nikova, E. P., Vansheidt, A. A. and others. THE REACTION OF METALLIC SODIUM WITH BIS(CHLOROMETHYL) DERIVATIVES OF AROMATIC HYDROCARBONS. Pt. 1 of The Use of the Wurtz Reaction for the Synthesis of Polymers of the Polyxylylene Type. [1961] 8p.
Order from ATS $15.15 ATS-42N57R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 9, p. 1383-1390.

DESCRIPTORS: *Chemical reactions, *Sodium, *Chlorides, Methyl radicals, Synthesis, Polymers.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12654

I. Mel'nikova, E. P.
II. Vansheidt, A. A.
III. Title: Use ...
IV. ATS-42N57R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3070

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Lanovskaya, L. M., Gantmakher, A. R., and Medvedev, S. S.
POLYMERIZATION OF ETHYLENE BY THE COMPLEX α-$TiCl_3$-AlF_3 CATALYST IN THE PRESENCE OF VARIOUS MONOMERS. I. THE INFLUENCE OF VARIOUS MONOMERS ON THE POLYMERIZATION OF ETHYLENE. [1960] 8p.
Order from ATS $12.95 ATS-77M46R

Trans. of Vysokomolekulyarnye Soyedineniya (USSR) 1960, v. 2, no. 9, p. 1391-1397.

ATS-RJ-2664
147,026

(Chemistry--Organic, TT, v. 5, no. 5)

61-12372

1. Ethylenes--Polymerization
2. Complex compounds--Catalytic properties
3. Aluminum compounds (Organic)--Catalytic properties
4. Titanium compounds (Organic)--Catalytic properties

I. Lanovskaya, L. M.
II. Gantmakher, A. R.
III. Medvedev, S. S.
IV. ATS-77M46R
V. Associated Technical Services, Inc., East Orange, N. J.
VI. Title: Influence...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Arbuzova, H. A., Kostikov, R. R., and Propp, L. N.
POLYMERIZATION OF DIVINYLBENZAL. [1961]
[5]p. 5 refs.

Order from OTS or SLA $1.10 62-13908

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 9] p. 1402-1404

DESCRIPTORS: *Plovmerization, Acid, Benzenes, Catalysts, *Vinyl radicals.

Polymerization in the presence of initiators of the radical type yielded a linear polymer of divinylbenzal, whose physical properties and analytical data indicated that it had a cyclic structure.

(Chemistry--Organic, TT, v. 7, no. 11)

62-13908

I. Arbuzova, H. A.
II. Kostikov, R. R.
III. Propp, L. N.
IV. Translations, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Shlyapnikov, Yu. A., Miller, V. B. and others.
A STUDY OF THE COMPARATIVE EFFECTIVENESS OF SOME ANTIOXIDANTS. Pt. 3 of the Thermo-Oxidative Degradation of Polypropylene. [1962] 4p.
Order from ATS $4.25 ATS-81N52F.

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 9, p. 1409-1413.

DESCRIPTORS: Propenes, *Antioxidants, Effectiveness, Polymers, Heat.

(Chemistry--Organic, TT, v. 7, no. 11)

62-12785

I. Shlyapnikov, Yu. A.
II. Miller, V. B.
III. Title: Thermo-Oxidative...
IV. ATS-81N52F
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Kolesnikov, G. S., Rodionova, E. F. and others. CARBON-CHAIN POLYMERS AND COPOLYMERS. XXVII. THE POLYMERIZATION AND COPOLYMERIZATION OF THE DI-N-BUTYL ESTER OF VINYLPHOSPHINIC ACID. [1961] [8]p. 7 refs. Order from OTS or SLA $1.10 61-20643

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 9, p. 1432-1437.

DESCRIPTORS: Polymerization, *Copolymerization, Condensation reactions, Polymers, Cyclic compounds, Chlorine compounds, *Phosphinic acids, *Styrenes, *Vinyl radicals, *Chlorides, *Acetates, Thermochemistry, Mechanical properties, Esters, Butyl radicals.

The polymerization of the di-n-butyl ester of vinylphosphinic acid was studied under different conditions. (Chemistry--Organic, TT, v. 7, no. 5) (over)

61-20643

I. Kolesnikov, G. S.
II. Rodionova, E. F.
III. Title: Polymerization ...

ATS-RJ-3074

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Determination of the Structural Glass Transition Temperature From Experimental Curves, by Yu. A. Gorbatkina. 6p
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 2, No 10, 1960, pp 1456-1458.
SLA TT-66-10656

Sci-M&M
Jul 66

306,108

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

63-17527-3

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 3, P. 367-534. Jan 63, iv.
Order from PI $100.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 10, p. 1449-1455, 1475-1480, 1486-1499, 1521-1535; no. 11, p. 1613-1634, 1645-1658, 1678-1687, 1722-1738, 1745; no. 12, p. 1811-1827, 1839-1844, 1860-1869. Abstracts are included of selected articles from v. 4, no. 2.

DESCRIPTORS: *Polymers, Chemistry, Condensation reactions, *Chlorides, *Pyrocatechol, *Acrylic resins, *Styrenes, Degradation, *Molecular spectroscopy, *Benzenes, Polymerization, Copolymerization, *Ethylenes, *Propenes, Deformation, Mechanical properties, *Butadienes, *Chemical bonds, *Glycols, *Catalysts, Anisotropy, Pressure, *Amides, *Fibers (Synthetic), *Vinyl radicals, *Ethyl ethers, *Sodium, (Chemistry--Organic, TT, v. 10, no. 4) (over)

1. Pergamon Press, Inc., New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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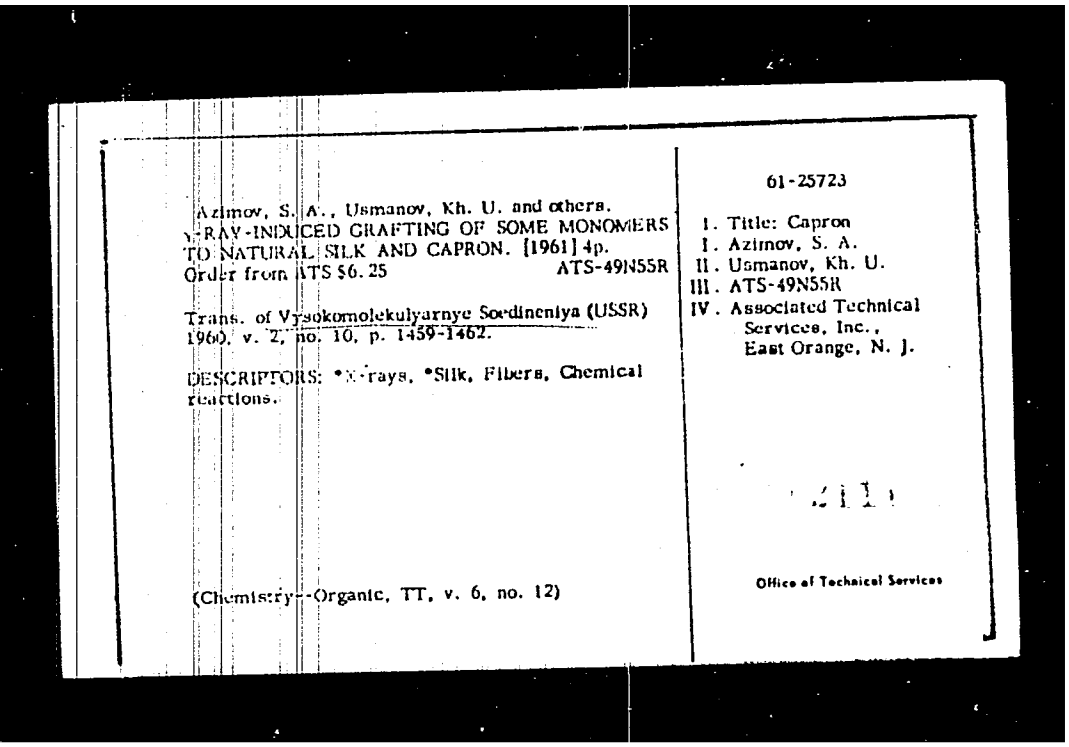

Azimov, S. A., Usmanov, Kh. U. and others.
X-RAY-INDUCED GRAFTING OF SOME MONOMERS TO NATURAL SILK AND CAPRON. [1961] 4p.
Order from ATS $6.25 ATS-49N55R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2, no. 10, p. 1459-1462.

DESCRIPTORS: *X-rays, *Silk, Fibers, Chemical reactions.

(Chemistry--Organic, TT, v. 6, no. 12)

61-25723

I. Title: Capron
I. Azimov, S. A.
II. Usmanov, Kh. U.
III. ATS-49N55R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Spasskiy, S. S. and Molchanova, T. V.
THE COPOLYMERIZATION OF POLYESTERS WITH VINYL- AND ALLYLMONOMERS. XI. COPOLYMERIZATION OF POLYDIETHYLENE GLYCOL FUMARATE ADIPIATE AND LOW MOLECULAR POLYDIETHYLENE GLYCOLS FUMARATE WITH STYRENE. [1961] [8]p. 9 refs.
Order from OTS or SLA $1.10 61-10980

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2 [no. 10] p. 1481-1485.

DESCRIPTORS: *Copolymerization, Polymers, *Esters, *Vinyl radicals, *Allyl radicals, *Ethylenes, *Glycols, Styrenes, Fumaric acids, Adipic acids.

(Chemistry--Organic, TT. v. 6, no. 2)

61-10980

I. Spasskiy, S. S.
II. Molchanova, T. V.
III. Title: Copolymerization...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

62-10596

Kargin, V. A., Markova, G. S., and Kovaleva, V. P. INVESTIGATION OF THE STRUCTURE AND PROPERTIES OF ETHYLENE AND PROPYLENE COPOLYMERS. [1961] 7p. (2 figs. omitted) 3 refs.
Order from OTS or SLA $1.10 62-10596

I. Kargin, V. A.
II. Markova, G. S.
III. Kovaleva, V. P.

Trans. of [Vysokomolekulyarnye Soedineniya] (USSR) 1960, v. 2, no. 10, p. 1531-1534.

DESCRIPTORS: *Ethylenes, *Propenes, Mechanical properties, Molecular structure, *Polymers, Deformation, Crystals, Crystallization, Stresses.

Tests showed that with the increase of irregularity in the copolymer chains, the perfectness of crystalline regions is reduced. The diffraction picture of the crystalline regions is structurally similar to that of polyethylene or polypropylene. There are no intermediate structures or changes in the parameters that would suggest the arising of stresses in the crystals. (Chemistry--Physical, TT, v. 7, no. 11) (over)

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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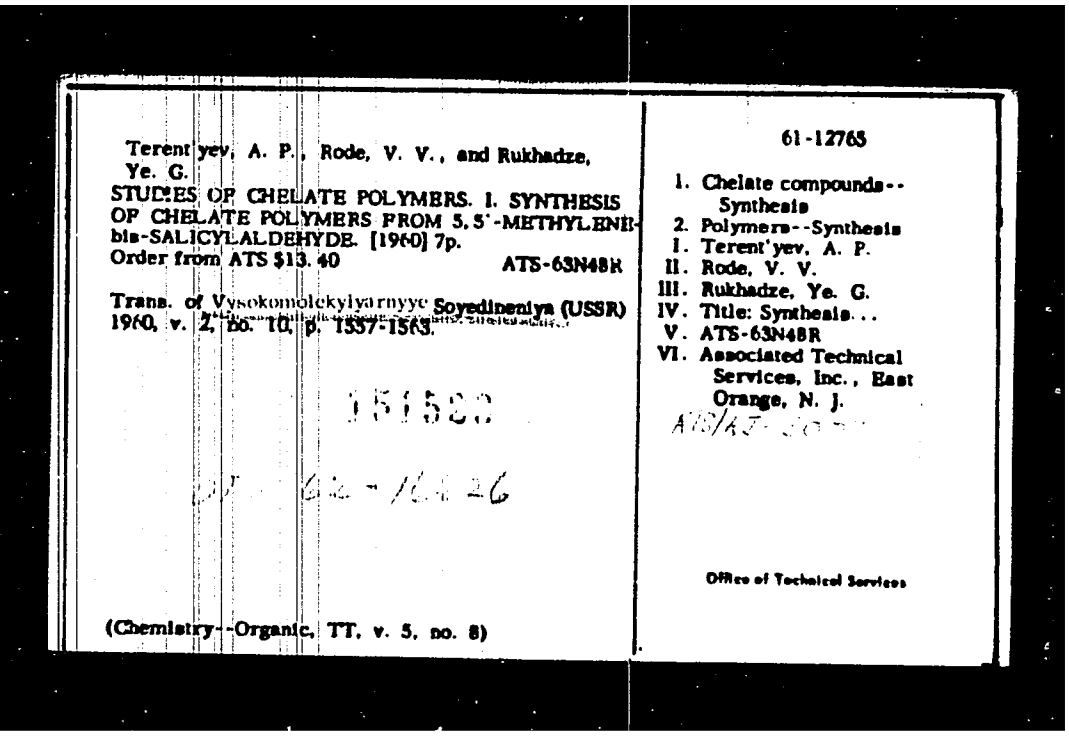

Terent'yev, A. P., Rode, V. V., and Rukhadze, Ye. G.
STUDIES OF CHELATE POLYMERS. I. SYNTHESIS OF CHELATE POLYMERS FROM 5,5'-METHYLENE-bis-SALICYLALDEHYDE. [1960] 7p.
Order from ATS $13.40 ATS-63N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 10, p. 1557-1563.

151522

61-12765

1. Chelate compounds--Synthesis
2. Polymers--Synthesis
I. Terent'yev, A. P.
II. Rode, V. V.
III. Rukhadze, Ye. G.
IV. Title: Synthesis...
V. ATS-63N48R
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-

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(Chemistry--Organic, TT, v. 5, no. 8)

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Kozlov, P. V., Iovleva, M. M. and others.
THE SOLUBILITY OF SOME GRAFTED COPOLYMERS. [1961] 10p. (3 figs. omitted) 9 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-10990

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2 [no. 10] p. 1580-1585.

The state diagrams were studied of a series of grafted copolymers of diphilic type (starch-polystyrene, polyethylene terephthalate-polyacrylic acid) and grafted copolymers containing starting component having common solvents (polyisobutylene-polystyrene, polystyrene-polyvinyl acetate). In all cases the grafting causes lessening of the true solubility of the grafted copolymer as compared with the starting homopolymers. For the grafted copolymer from polystyrene and polyvinyl acetate the dissolution process is described by means of thermodynamical functions on the basis of data on integral mixing heat with benzene and hydrogenated monomers.

(Chemistry--Organic, TT, v. 5, no. 11) (over)

61-10990

1. Polymers--Solubility
2. Styrene polymers--Solubility
3. Starch--Solubility
4. Isobutene polymers--Solubility
5. Title: Graft copolymers
I. Kozlov, P. V.
II. Iovleva, M. M.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

The Mechanism of the Transition From Forced Elastic to Highly Elastic Rupture, by V. E. Gul', Z. N. Chekalin.

RUSSIAN, per, Vysokomolekulyarnye Soyed, MEKH Vol II, No 11, 1960, pp 1613-1615.

KLL/RTB 1960

Sol - Chem

ATS

193,833

Apr 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Polyakov, A. L., Derevitskaya, V. A., and Rogovin, Z. A.
INVESTIGATION OF THE POSSIBILITY OF PREPARING UNSATURATED COMPOUNDS OF CELLULOSE BY THE CHUGAEV REACTION
L. Gavronskia, tr. 17 Jul 63, 5p 9refs Courtaulds Misc. Lit. 3655; [DSIR] NLL M. 5440.
Order from OTS, SLA, or BTC $1.10 TT-64-13225

Trans. of Vysokomol[ekulyarnye] Soedin[eniya] (USSR) 1960, v. 2, no. 3, p. 386-389.

(Chemistry—Organic, TT, v. 12, no. 2)

TT-64-13225

I. Polyakov, A. L.
II. Derevitskaya, V. A.
III. Rogovin, Z. A.
IV. Courtaulds-ML-3655
V. DSIR-NLL-M. 5440
VI. Courtaulds Ltd., Manchester (England)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Composition Equations of Three-Component Copolymers
Part I, by A. I. Tarasov,
RUSSIAN, per, Vysokomol Soedin, Vol 2, No 11,
1960, pp 1601-1607,
ATS RJ-5365

Sci-Chem
June 70

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

63-17527-1

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 1, P. 1-210. May 62, 1v.
Order from PP $100.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 1, p. 10-13, 56-65, 81-83, 99-104, 134-143, 150-151, 161-163; no. 2, p. 184-204, 213-214, 232-236, 290-309; no. 3, p. 363-367, 371-381, 408-413, 420-434, 470-474. Abstracts are included of selected articles from v. 3, nos. 4-8.

DESCRIPTORS: *Polymers, Chemistry, Scientific research, Light, Scattering, *Chemical bonds, Photochemistry, *Amides, Polymerization, *Ethylenes, Radiation chemistry, *Acrylic acids, Phase studies, *Phthalates, *Styrenes, Electron bombardment, Reaction kinetics, *Esters, Morphology, *Vinyl radicals, *Acetates, *Diffusion, *Nuclear magnetic resonance, *Acrylic resins, Copolymerization, *Methanols, (Chemistry--Organic, TT, v. 10, no. 4) (over)

1. Pergamon Press, Inc., New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Rafikov, S. R. and Sorokina, R. A.
THERMAL-OXIDATIVE TRANSFORMATIONS OF POLYAMIDES. Pt. 4 of Chemical Transformation of Polymers. [1961] 10p.
Order from ATS $15.75 ATS-40N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 1, p. 21-29.

DESCRIPTORS: *Amides, *Polymers, Oxidation, Transformations, Thermochemistry.

(Chemistry--Organic, TT, v. 6, no. 6)

61-25076

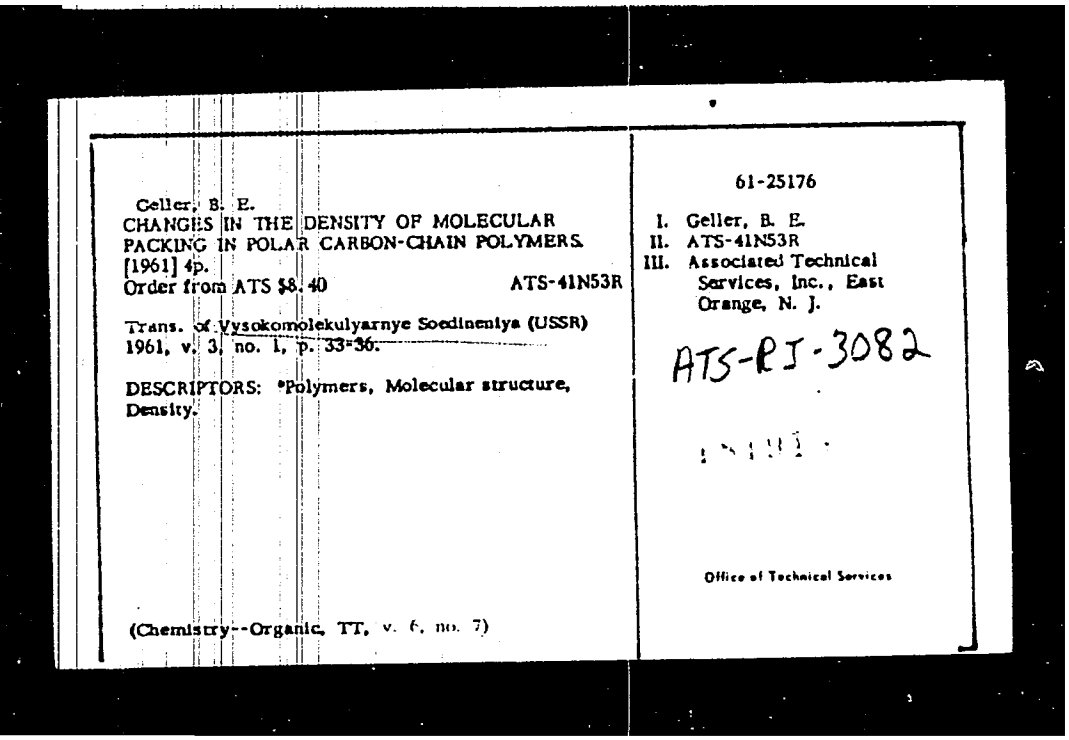
I. Rafikov, S. R.
II. Sorokina, R. A.
III. ATS-40N53R
IV. Title: Chemical...
V. Associated Technical Services, Inc., East Orange, N. J.

NLL
ATS/RT-2996
176736

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2



Geller, B. E.
CHANGES IN THE DENSITY OF MOLECULAR PACKING IN POLAR CARBON-CHAIN POLYMERS. [1961] 4p.
Order from ATS $8.40 ATS-41N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 1, p. 33-36.

DESCRIPTORS: *Polymers, Molecular structure, Density.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25176

I. Geller, B. E.
II. ATS-41N53R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3082

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Uskov, I. A., Tarasenko, Yu. G., and Kusnitsyna, T. A.
FILLED POLYMERS. IV. COMPOUNDING OF DISSOLVED POLYMETHYLMETHACRYLATE WITH FILLERS. [1963] [8 p. 9 refs.
Order from OTS or SLA $1.10 63-16595

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 1, p. 37-40.
Other translations are available from ATS $6.25 as ATS-94P59R [1962] 4p.; from ICE in v. 1, no. 1, $15.00/year; an abstract trans. from OTS or SLA $1.10 as 61-19866, AID-61-44, 10 Apr 61, 2p.

DESCRIPTORS: *Acrylic resins, Polymers, *Fillers, Methyl radicals, Bentonite.

Using modified bentonites and polymethylmethacrylate as an example, a method was worked out for adding a
(Materials - Plastics, TT, v. 10, no. 7) (over)

63-16595

1. Title: Methyl methacrylate
I. Uskov, I. A.
II. Tarasenko, Yu. G.
III. Kusnitsyna, T. A.
IV. Title: Compounding ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Ispravnikova, A.G., Sletkina, L.S. and Rogovin, Z.A.

INFLUENCE SPÉCIFIQUE DES NITRATES DE CELLULOSE SUR LE PROCESSUS DE POLYMÉRISATION DE CERTAINS MONOMÈRES VINYLIQUES CATALYSÉE PAR DES RADICAUX LIBRES (Specific Effect of Cellulose Nitrates on the Process of Radical Polymerization of Some Vinyl Monomers). 14p. (foreign illegible text included) 4refs. CNRS-VI 704
Order from OTS, ETC or CNRS $1.60 TT-62-28722

Trans. in French of Vysokomolekulyarnye Soedineniya (USSR) 1961, v.3, iid.1, p.46-49.
Trans. in English is available from TTIS $14.00 as TTIS-4003, 1961, 1250 words.

DESCRIPTORS: *Vinyl plastics, Polymerization, Nitrocellulose, Chemical reactions,

(Materials--Plastics, TT, v. 11, no. 9)

TT-62-28722

I. Ispravnikova, A.G.
II. Sletkina, L.S.
III. Rogovin, Z.A.
IV. CNRS-VI 704
V. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

PP

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korshak, V. V., Vinogradova, S. V. and others.
A STUDY OF SOME RELATIONSHIPS GOVERNING POLYCONDENSATION OF DICARBOXYLIC ACID CHLORIDES WITH DIHYDRIC PHENOLS IN HIGH-BOILING SOLVENTS. Pt. 30 of Hetero-Chain Polyesters. [1961] 6p.
Order from ATS $12.00 ATS-42N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 1, p. 66-71.

DESCRIPTORS: *Carboxylic acids, *Chlorides, *Phenols, Condensation reactions, Organic solvents, *Esters, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 6)

61-25041

I. Korshak, V. V.
II. Vinogradova, S. V.
III. Title: Hetero-Chain...
IV. ATS-42N53R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2994
17671U

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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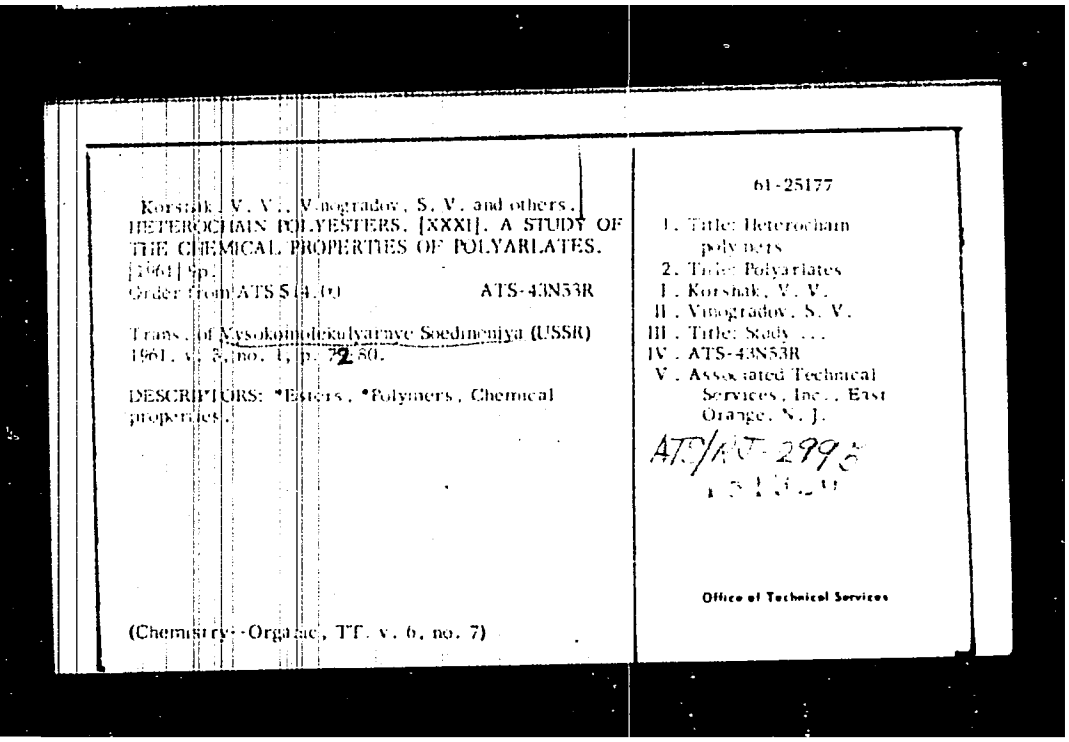


Korshak, V. V., Vinogradov, S. V. and others.
HETEROCHAIN POLYESTERS. [XXXI]. A STUDY OF THE CHEMICAL PROPERTIES OF POLYARLATES.
[1961] 9p.
Order from ATS $4.00 ATS-43N53R

Trans. of Vysokomolekulyarnye Soedinenija (USSR) 1961, v. 3, no. 1, p. 72-80.

DESCRIPTORS: *Esters, *Polymers, Chemical properties.

(Chemistry--Organic, TT. v. 6, no. 7)

61-25177

1. Title: Heterochain polymers
2. Title: Polyarlates
I. Korshak, V. V.
II. Vinogradov, S. V.
III. Title: Study ...
IV. ATS-43N53R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-2995

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Katibnikov, M. A. and Ermolenko, I. N.
ABSORPTION AND LUMINESCENCE SPECTRAL STUDY OF DYE-POLYELECTROLYTE INTERACTION IN SOLUTIONS. I. AQUEOUS SOLUTIONS OF RHODAMINE 6G IN THE PRESENCE OF METH-ACRYLIC ACID. [1961] 15p. (9 refs. 3 figs. omitted) 6 refs.
Order from OTS or SLA $1.60 62-10663

Trans. of Vysokomolek[ulyarnye] Soedin[eniya] (USSR) [1961] v. 3, no. 1, p. 105-112.

DESCRIPTORS: *Dyes, Organic compounds, Acrylic acids, Polymers, Methanes, Electrolytes, Absorption spectra, Luminescence, Polarization, Optics, Pigments.

A study was made of the influence of the concentration of polymethacrylic acid on absorption spectra, luminescence spectra, intensity of luminescence, and also the
(Chemistry-Organic, TT, v. 7, no. 12) (over)

62-10663

I. Katibnikov, M. A.
II. Ermolenko, I. N.
III. Title: Aqueous...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Isotactic Polyacrylic Acid and Its Salts, by V. A. Kargin, et al.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol III, No 1, 1961, pp 134-138.

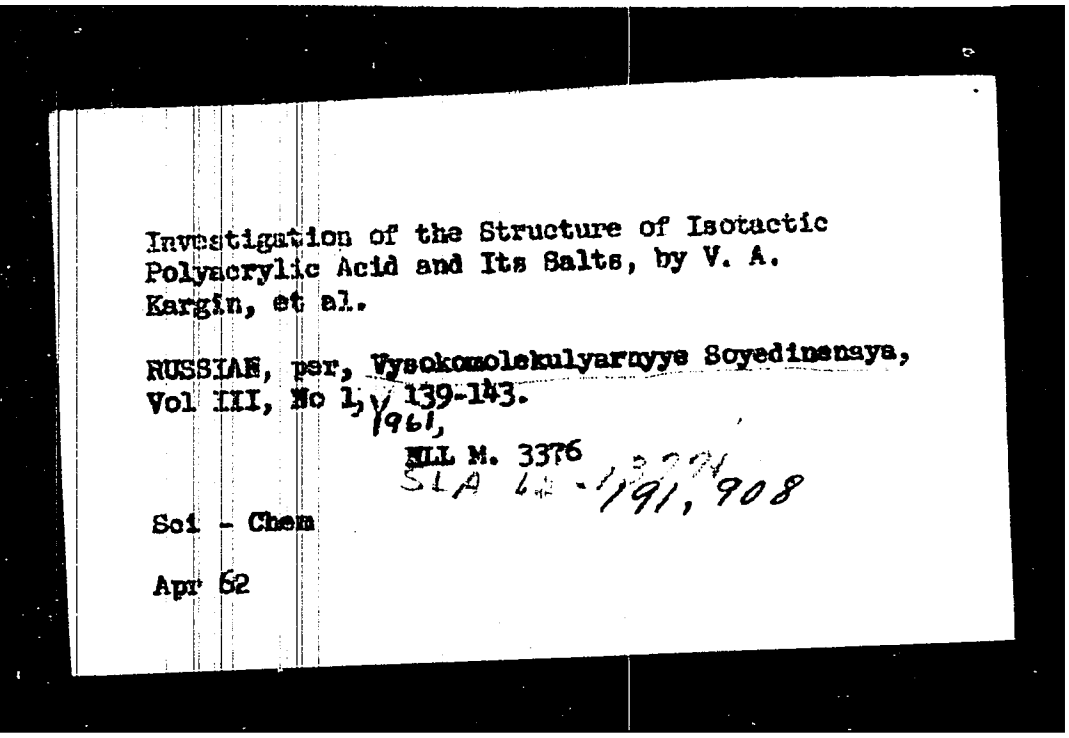
NLL M. 3371
SLA 62-1[illegible]
191, 907

Sci - Chem

Apr 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2



Investigation of the Structure of Isotactic Polyacrylic Acid and Its Salts, by V. A. Kargin, et al.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol III, No 1, 139-143. 1961.

NLL M. 3376
SLA 62-1191, 908

Sci - Chem

Apr 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korolev, G. V., Makhonina, L. I., and Berlin, A. A. KINETIC FEATURES OF THE POLYMERIZATION OF SOME POLYACRYLATE ESTERS. Pt. 1 of Polymerization in Highly Viscous Media, and Three-Dimensional Polymerization. [1961] 8p.
Order from ATS $14.95 ATS-33N57R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 2, p. 198-204.

DESCRIPTORS: *Polymerization, Acrylic acids, *Esters, *Reaction kinetics.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12661

I. Korolev, G. V.
II. Makhonina, L. I.
III. Berlin, A. A.
IV. Title: Polymerization ...
V. ATS-33N57R
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3060

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korshak, V. V., Frunze, T. M. and others.
HETEROCHAIN POLYAMIDES. XXVIII. THE SIGNIFICANCE OF HYDROCHLORIC ACID ACCEPTORS IN THE PREPARATION OF POLYAMIDES BY INTERFACIAL POLYCONDENSATION. [1961] 4p.
Order from ATS $6.25 ATS-44N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 2, p. 205-207.

DESCRIPTORS: *Amides, Synthesis, Hydrochloric acid, Condensation reactions, Polymerization, Polymers.

(Chemistry--Organic, TT, v. 6, no. 8)

61-25347

I. Korshak, V. V.
II. Frunze, T. M.
III. Title: Significance...
IV. ATS-44N53R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/RT-3014

115231

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

KINETICS OF VINYL ACETATE POLYMERIZATION IN METHANOL, BY L. ALEKSANDRU, M. OPRISH. 7 pp.

RUSSIAN, PR, VYSOKOMOLEKULYARNYYE SOEDINENIYA, VOL III, NO 2, 1961, PP 306-309.

NLL M.348x1

SCI - CHEM

JUN 62

OTS 63-19714

199,104

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

(SF-1879)

The International Macromolecular Chemistry Symposium in Moscow, by P. V. Kozlov, V. A. Kabanov, N. A. Plate, 47 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol III, No 2, 1961, pp 328-348.

JPRS 11387

Sci - Chem
Jan 22

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Thermal Degradation of Fluorinated Elastomers of the Kel-Fand PEP/VF Types, by T. G. Degteva.

RUSSIAN, per, Vysok Soed, No 3, 1961, 5 pp.

RAE 967

182,626

Sci - Phys

Feb62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Investigation of Molecular Interactions in Polymer Solutions by the Method of Converting the into Colloidal Systems, by S. Glickman.
RUSSIAN, per, Vysokomolek Ulyarnye Soedineniya
Vol. 3, No. 3, 1961, pp 353-358
GB/39/PA PVM 131/A/344

Sci -
Aug 67

336-139

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korshak, V. V., Fruze, T. M. and others.
HETEROCHAIN POLYAMIDES. [XXIX]. THE IMPORTANCE OF THE HYDROLYSIS OF DICARBOXYLIC ACID CHLORIDES IN INTERFACIAL POLYCONDENSATION. [1961] 5p.
Order from ATS $8.00 ATS-45N53R

Trans. of Vysokomolekulyarnye Soedineniya, 1961, v. 3, no. 5, p. 371-375.

DESCRIPTORS: *Amides, *Polymers, Condensation reactions, *Carboxylic acids, *Chlorides, Hydrolysis.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25178

I. Title: Heterochain polymers
I. Korshak, V. V.
II. Fruze, T. M.
III. Title: Importance ...
IV. ATS-45N53R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/RT-2015

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Parini, V. P., Kazakova, Z. S. and others.
POLYMERS WITH A SYSTEM OF CONJUGATED BONDS AND WITH HETERO ATOMS IN THE CONJUGATION CHAIN. Pt. 12 of Preparation and Properties of Some Poly(Aminoquinones). [1961] 7p.
Order from ATS $9.00 ATS-51N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 3, p. 402-407.

DESCRIPTORS: *Polymers, *Chemical bonds, Molecular structure, Quinones, Amines.

(Chemistry--Organic, TT, v. 7, no. 2)

61-25350

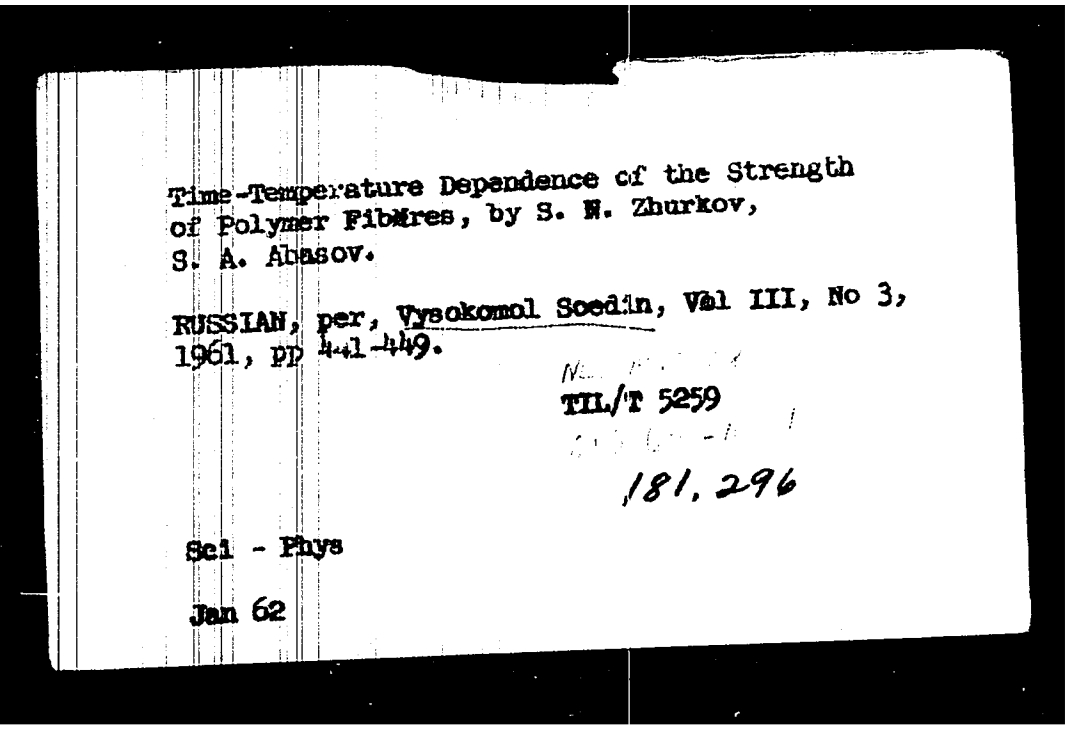
I. Parini, V. P.
II. Kazakova, Z. S.
III. Title: Preparation ...
IV. ATS-51N53R
V. Associated Technical Services, Inc., East Orange, N. J.

ATI/AT-2993

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2



Time-Temperature Dependence of the Strength of Polymer Fibres, by S. N. Zhurkov, S. A. Abasov.

RUSSIAN, per, Vysokomol Soedin, Vol III, No 3, 1961, pp 441-449.

TIL/T 5259

181,296

Sci - Phys

Jan 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

The Role of Chemical and Intermolecular Bonds in Polymer Rupture, by S. N. Zhurkov, S. A. Abasov.

RUSSIAN, per, Vysokomol Soedin, Vol III, No 3, 1961, pp 450-455.

TIL/T 5260

181,292

Sci - Chem

Jan 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Rodionova, Ye. F. and Kolesnikov, G. S.
POLYMERIZATION AND COPOLYMERIZATION OF VINYLPHOSPHONIC DICHLORIDE, PT. 31. [1961] 5p.
Order from ATS $8.15 ATS-89N51R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1961, v. 3, no. 3, p. 459-463

DESCRIPTORS: *Copolymerization, *Polymerization, Vinyl radicals, Phosphonyl radicals, Chlorides, *Polymers.

(Chemistry--Organic, TT, v. 6, no. 3)

61-22613

I. Rodionova, Ye. F.
II. Kolesnikov, G. S.
III. ATS-89N51R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/RT-3002

17532

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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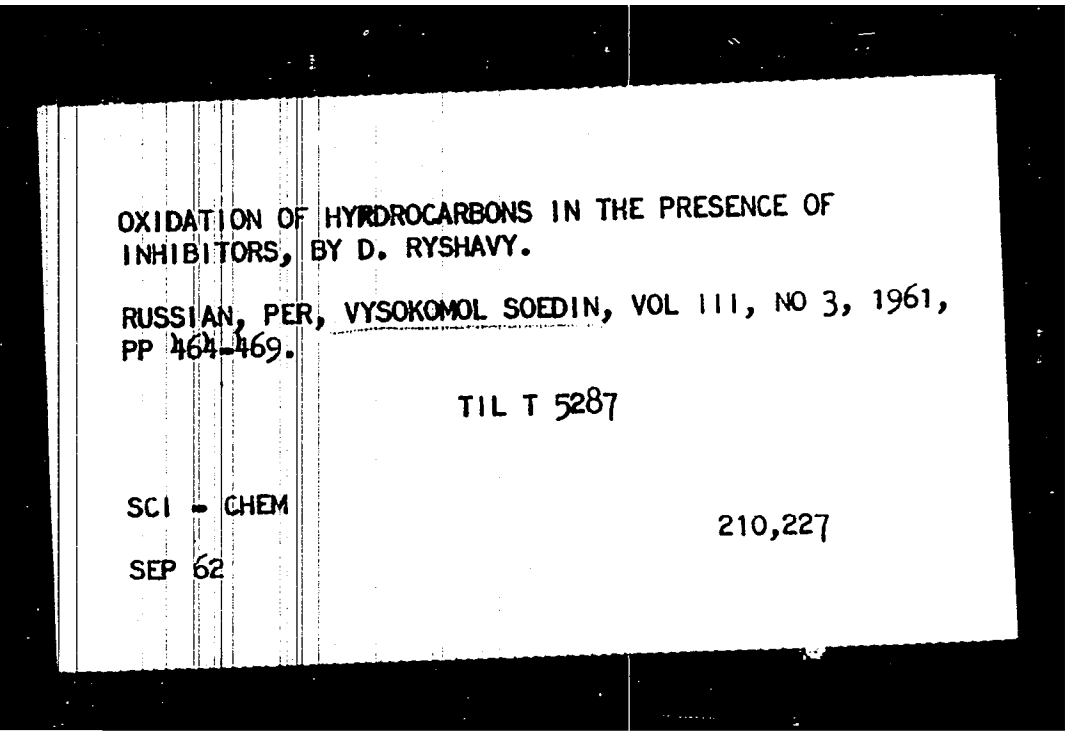

OXIDATION OF HYRDROCARBONS IN THE PRESENCE OF INHIBITORS, BY D. RYSHAVY.

RUSSIAN, PER, VYSOKOMOL SOEDIN, VOL III, NO 3, 1961, PP 464-469.

TIL T 5287

SCI - CHEM

210,227

SEP 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Ryshavy, D. and Balaban, L.
EFFECT OF POLYMERIZATION CATALYSTS ON THE DESTRUCTION RATE OF ISOTACTIC POLYPROPYLENE. [1963] 6p. 4 refs.
Order from OTS or SLA $1.10 63-18410

Trans. of Vysokomolekulyarnye Soed[ineniya] (USSR) 1961, v. 3, no. 8, p. 470-474.
Other translations are available from OTS or SLA $1.60 as 63-10811, 9 May 62 [11]p. and from PP in Polymer Science USSR, v. 3, no. 1, $100.00/year.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymers, Degradation, *Catalysts, *Ziegler catalysts, Aluminum compounds, Zinc compounds, Ethylenes, Titanium compounds, Chlorides, *Anticoxidants.

The influence of the catalysts used during polymeri-
(Materials--Plastics, TT, v. 10, no. 8) (over)

63-18410

I. Ryshavy, D.
II. Balaban, L.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

63-17527-4

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 4, P. 535-758. Feb 63. 1v.
Order from PP $100.00/year

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 4, p. 506-520, 530-535, 541-554, 562-569, 585-593, 637-641; no. 5, p. 657-661, 679-698, 706-710, 716-723, 748-757, 787-793; no. 6, p. 801-806, 820-832, 841-846, 861-864, 870-890, 898-900, 908-918, 931-935. Abstracts are included of selected articles from v. 4, nos. 3-4.

DESCRIPTORS: *Polymers, Chemistry, Copolymerization, *Radiation chemistry, *Ethylenes, *Phthalates, *Benzoyl radicals, *Peroxides, *Ethyl radicals, *Amines, *Serum-albumin, Polymerization, *Acrylic resins, *Vinyl radicals, *Acetates, *Thio radicals, *Valeric acids, Adhesion, *Propenes, *Titanium compounds, *Chlorides, *Amides, *Styrenes, *Butenes, (Chemistry--Organic, TT, v. 10, no. 4) (over)

1. Pergamon Press, Inc., New York

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Spaskii, S. S. and Karas, L. Ya.
ZUM PROBLEM DER INDIVIDUELLEN QUANTITATIVEN AKTIVITATSCHARAKTERISTIK UNGESATTIGTER VERBINDUNGEN BEI DEN KOPOLYMERISATIONS-REAKTIONEN (The Individual and Quantitative Characteristic of the Activity of Unsaturated Compounds During Copolymerization Reactions). 22p.
Order from TIB $3.35

Trans. in German of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 4 [p. 505-514].

DESCRIPTORS: *Copolymerization, Chemical reactions, Organic compounds.

(Chemistry--Organic, TT, v. 9, no. 11)

62-27279

I. Spaskii, S. S.
II. Karas, L. Ya.
III. Technische Informationsbibliothek, Hannover (West Germany)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

The Copolymerization of bis-(Alkylamino) Alkyl- or Arylboron With Organic Diisocyanates, by V. V. Korshak, N. I. Bekasova, 8 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol III, No 4, 1961, pp 521-524. 9676329

FTD-TT-62-25

Sci - Chem

194,120

4 May 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

The Copolymerization of B-Substituted Borasoles With Hexamethylene Diisocyanate, by V. V. Korshak, V. A. Zamyatina, 7 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol III, No 4, 1961, pp 525-529. 9676329

FTD-TT-62-25

Sci - Chem

194,131

4 May 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Golova, O. P., Epstein, Ya. E., and Dobrynina, L. I. THE EFFECT OF INORGANIC COMPONENTS ON THE CLEAVAGE OF C-C-BONDS DURING THERMAL DEGRADATION OF CELLULOSE (Vliyanie Neorganicheskikh Komponentov na Rasryf C-C-Svyazei pri Termicheskom Raspade Cellulozy). Sep 63 [7p] 7refs FPRB Trans. no. 160.
Order from NRCC

NRCC-C-4553

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 4 [p. 536-540]. (Abstract available)

DESCRIPTORS: *Cellulose, *Pyrolysis, Chemical bonds, Inorganic substances, *Salts, Chlorides, Sulfates, Acetates,

Inorganic salts exert a selective effect on the chemical transformation of cellulose at high temperatures. Chlorides of the monovalent metals have the highest (Chemistry, TT, v. 11, no. 3) (over)

TT-64-12033

I. Golova, O. P.
II. Epstein, Ya. E.
III. Dobrynina, L. I.
IV. FPRB Trans-160
V. NRCC-C-4553
VI. Forest Products Research Branch (Canada)
VII. Bureau of Translations (Canada)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Distinctive Features of the Proton Magnetic Resonance Spectra of a and b forms of Polypeptide Chains, by D. Shigorin.

RUSSIAN, per, Vysokomolekuliarnye Soedineniya, Vol III, No 4, 1961, pp 560-561.

CSIRO/No 586?

Sci-Phys
May 63

OTS 63-[illegible]

229,863

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

INVESTIGATIONS IN THE FIELD OV CYCLIC POLYMERIZATION AND COPOLYMERIZATION. III. SYNTHESES AND CYCLIC POLYMERIZATION OF ALIPHATIC DIVINYL ACETALS, BY S. G. MATSOYAN, ET AL.

RUSSIAN, PER, VYSOKOMOLEKUL SOEDINENIYA, VOL III, 1961, PP 562-569.

NLL M. ~~X6878~~ 3485

199,106

SCI - CHEM

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Spectral Investigation of Products Formed During Polymerization of Styrene With 9-Vinylanthracene Additions, by A. S. Cherkasov, K. G. Voldaikina, 10 pp.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol III, 1961, pp 570-.

AEC Tr-5065

Sci - Chem
Jul 62
List 70

204, 728

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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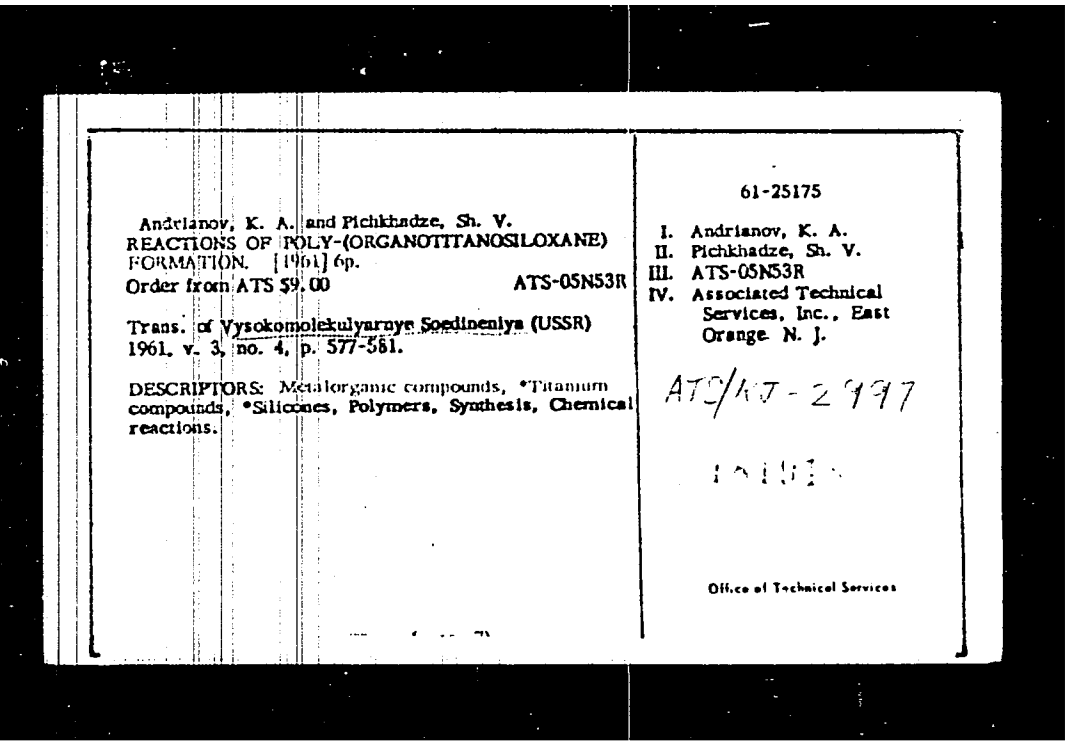

Andrianov, K. A. and Pichkhadze, Sh. V.
REACTIONS OF POLY-(ORGANOTITANOSILOXANE) FORMATION. [1961] 6p.
Order from ATS $9.00 ATS-05N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 4, p. 577-581.

DESCRIPTORS: Metalorganic compounds, *Titanium compounds, *Silicones, Polymers, Synthesis, Chemical reactions.

61-25175

I. Andrianov, K. A.
II. Pichkhadze, Sh. V.
III. ATS-05N53R
IV. Associated Technical Services, Inc., East Orange N. J.

ATS/AT-2997

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Tsvetkova, V. I., Pirogov, O. N. and others. KINETICS AND MECHANISM OF OLEFINS POLYMERIZATION ON COMPLEX CATALYSTS. I. THE KINETIC EQUATIONS AND RATE CONSTANTS OF α-OLEFINS POLYMERIZATION ON THE SYSTEM $TiCl_3$ - Al $(C_2H_5)_3$ FOR DIFFERENT MANNERS OF ACCOMPLISHING THE PROCESS. [1962] 11p. 5 refs.

Order from OTS or SLA $1.60 62-14819

Trans. of Vysokomolekulyarnye Soed[ineniya] (USSR) 1961, v. 3, no. 4, p. 585-593.

DESCRIPTORS: *Ethylenes, *Polymerization, Reaction kinetics, Titanium compounds, Chlorides, Aluminum, Ethyl radicals, Catalysts, Catalysis.

The kinetic equations are derived for various methods of investigating α-olefin polymerization on $TiCl_3$-Al $(C_2H_5)_3$ catalysts. On the basis of the equations a

(Chemistry--Organic, TT, v. 8, no. 6) (over)

62-14819

I. Tsvetkova, V. I.
II. Pirogov, O. N.
III. Title: Kinetic ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Investigation of the Degradation of Condensation Resins. Thermo-Oxidative Degradation of Hardened Epoxy Resins, by M. B. Neiman.

RUSSIAN, per, Vysokomolekulyarnye Soedinyeniya, Vol III, 1961, pp 602-606.

NLL RTS 2431
(loan copy)

Jul 64

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Investigation of the Degradation of Polycondensation Resins. Part 3. Thermooxidative Degradation of Hardened Epoxy Resins, by M. B. Neiman. RUSSIAN, per, Vysokomolekul Soedin, Vol 3, No 4, 1961, pp 602-606.
ATS-4896

Sci
Dec 63

368,764

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Shirokova, N. I., Russkova, E. F. and others.
STUDIES OF POLYCARBONATES. [III]. STUDIES OF 2,2-Bis(4-HYDROXYPHENYL)PROPANE POLYCARBONATES IN A HOMOGENEOUS MEDIUM AND THEIR PROPERTIES. [1961] 9p.
Order from ATS $12.50 ATS-60N52R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 4, p. 642-649.

DESCRIPTORS: *Carbonates, Chemical properties, Propanes, Hydroxides, Phenyl radicals.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25218

1. Shirokova, N. I.
II. Russkova, E. F.
III. T tle: Studies of 2,2-Bis...
IV. ATS-60N52R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-3001

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Polyakova, A. M., Korshak, V. V., and Tambovtseva, R. S.
α-METHYLSTYRENES CONTAINING Sn, Pb and Ge. Pt. 7 of the Polymerization of Ring-Substituted α-Methylstyrenes und Pressure. [1961] 4p.
Order from ATS $4.6(ATS-92N53R

Trans. of Vysokomol'kulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 662-664.

DESCRIPTORS: *Styrenes, *Methyl radicals, Tin, Lead, Germanium, Polymerization, Pressure.

(Chemistry--Organic, TT, v. 7, no. 3)

62-12080

I. Polyakova, A. M.
II. Korshak, V. V.
III. Tambovtseva, R. S.
IV. Title: Polymerization ...
V. ATS-92N53R
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3093

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Degteva, T. G.
THERMAL DEGRADATION OF FLUORINATED ELASTOMERS OF THE KEL-F AND PFP/VF TYPES (Termicheskii Raspad Ftorsoderzhashchikh Elastomerov Tipa Kel-F i PFP/VF) tr. by G. Kimer. Sep 61 [12p] 8refs RAE Library Trans. no. 967; AD-265 016. Order from OTS, SLA, or ETC $1.60 TT-63-24371

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 671-678. (Abstract available)

DESCRIPTORS: *Elastomers, Pyrolysis, Heat resistant plastics, Polymers, Structural properties, Heat of activation, Reaction kinetics, Fluorides, Heat of reaction, Ethylenes, Chlorides, Propenes, Polyvinyl chloride.

The thermal degradation of Kel-F and PFP/VF elastomers was investigated over the temperature range (Materials--Elastomers, TT, v. 11, no. 5) (over)

TT-63-24371

I. Degteva, T. G.
II. RAE Trans-967
III. AD-265 016
IV. Royal Aircraft Establishment (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korotkov, A. A. and Li, Tsung-Ch'ang.
EFFECTS OF PREPARATION CONDITIONS ON THE SPECIFICITY FOR THE POLYMERIZATION OF PROPYLENE FOR CATALYSTS BASED ON β -$TiCl_3$ + $Al(C_2H_5)_3$. Pt. 1 of Effects of the Structure of Titanium Trichloride on the Stereospecificity of Catalysts. [1961] 8p. 8 refs.
Order from RIS $14.00 RIS G-314a

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 686-690.

DESCRIPTORS: *Propenes, Polymerization, *Titanium compounds, *Chlorides, Aluminum compounds, Ethyl radicals, *Catalysts, Catalysis, Preparation, Crystal structure, Stereochemistry, Polymers.

(Chemistry--Physical, TT, v. 7, no. 5)

62-12434

I. Korotkov, A. A.
II. Li, Tsung-Ch'ang
III. Title: Effects of the Structure ...
IV. RIS G-314a
V. Research Information Service, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Korotkov, A. A. and Li, Tsung-Ch'ang.
CHANGES IN THE STRUCTURE AND CATALYTIC BEHAVIOR OF TITANIUM TRICHLORIDE AFTER HEAT TREATMENT. Pt. 2 of Effects of the Structure of Titanium Trichloride on the Stereospecificity of Catalysts. [1961] 11p. 6 refs.
Order from RIS $20.00 RIS G-314b

Trans. of Vysokomolekularnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 691-693.

DESCRIPTORS: *Titanium compounds, *Chlorides, *Catalysts, Catalysis, Heat treatment, Crystal structure, Stereochemistry, X-ray diffraction analysis, Electron microscopy, Chemical analysis.

(Chemistry--Physical, TT, v. 7, no. 5)

62-12435

I. Korotkov, A. A.
II. Li, Tsung-Ch'ang
III. Title: Effects ...
IV. RIS G-314b
V. Research Information Service, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Rafikov, S. R., Zhubanov, B. A. and others.
INVESTIGATIONS IN THE FIELD OF POLYMER SYNTHESIS I. SYNTHESIS OF POLYAMIDES BASED ON XYLYLENEDIAMINES. [1961] 8p.
Order from ATS $13.45 ATS-28N55R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 699-705.

DESCRIPTORS: *Amides, *Polymers, Synthesis, Xylenes, Amines, Chemical reactions.

(Chemistry--Organic, TT, v. 7, no. 3)

62-12093

I. Rafikov, S. R.
II. Zhubanov, B. A.
III. Title: Synthesis ...
IV. ATS-28N55R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RI-3069

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Sokolova, T. A. and Rudkovskaya, G. A.
CYCLIC POLYMERIZATION. I. N-METHYLDIMETHACYLAMIDE. [1961] [7]p. 23 refs.
Order from OTS or SLA $1.10 62-13909

Trans. of Vysokomolekulyarnye Soedineniya (USSR) [1961] v. 3, p. 706-710.

DESCRIPTORS: *Polmerization, *Amides, Polymers, Peroxides, *Molecular structure, Methyl radicals.

N-methyldimethacrylamide can be block polymerized with peroxide initiators, yielding a soluble linear polymer that contains rings in its chain. The cyclic structure of polymethyldimethacrylamide was established by synthesis of a similar polymer via deamination of polymethylmethacrylamide.

(Chemistry--Organic, TT, v. 7, no. 11)

62-13909

I. Sokolova, T. A.
II. Rudkovskaya, G. A.
III. Translations, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Neimark, I. E., Chuiko, A. A., and Slinyakova, I. B.
LES SILICES OLEFINO-SUBSTITUÉES COMME FILLERS ACTIFS DES POLYMÈRES (Olefin-substituted Silicas as Active Fillers of Polymers). 12p. 15 refs. FR-2899 (text in French).
Order from OTS or ETC $1.85 62-26151

Trans. in French of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 711-715.

DESCRIPTORS: *Silicides, Polymers, Additives.

(Materials--Plastics, TT, v. 9, no. 8)

62-26151

I. Neimark, I. E.
II. Chuiko, A. A.
III. Slinyakova, I. B.
IV. FR-2899
V. Centre National de la Recherche Scientifique (France)

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Lyubetskii, S. G., Dolgoplosk, B. A., and Erusalimskii, B. L.
KINETICS OF ETHYLENE POLYMERIZATION IN BENZENE AND HEPTANE SOLUTION. Pt. 1 of the Polymerization of Ethylene Under the Influence of Free Radicals. [1962] 7p.
Order from ATS $9.25 ATS-67N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 734-739.

DESCRIPTORS: *Ethylenes, *Polymerization, *Reaction kinetics, *Benzenes, Free radicals, Solutions, Heptanes.

(Chemistry--Organic, TT, v. 7, no. 11)

62-12784

I. Lyubetskii, S. G.
II. Dolgoplosk, B. A.
III. Erusalimskii, B. L.
IV. Title: Polymerization of...
V. ATS-67N53R
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3826

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Eizner, Yu. E.
THE RELATIONSHIP BETWEEN CONCENTRATION AND THE DIMENSIONS OF MACROMOLECULES IN SOLUTION. [1961] 11p.
Order from ATS $17.00 ATS-20N54R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 5, p. 748-757.

DESCRIPTORS: *Molecules, *Solutions, Density

(Chemistry--Physical, TT, v. 7, no. 5)

62-12083

I. Eizner, Yu. E.
II. ATS-20N54R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3080

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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Studies on the Electroconductivity of Polymers. IV. Effect of Dipole Polarization (Polystyrene, Poly-p-Chlorostyrene, and Styrene-Acrylonitrile Copolymer, by B. I. Sazhin, M. P. Eidel'nant, 14 pp.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol III, No 5, 1961, pp 761-767. 9206074.

AEC/SCL Tr 461

Sci - Chem

May 63

229,908

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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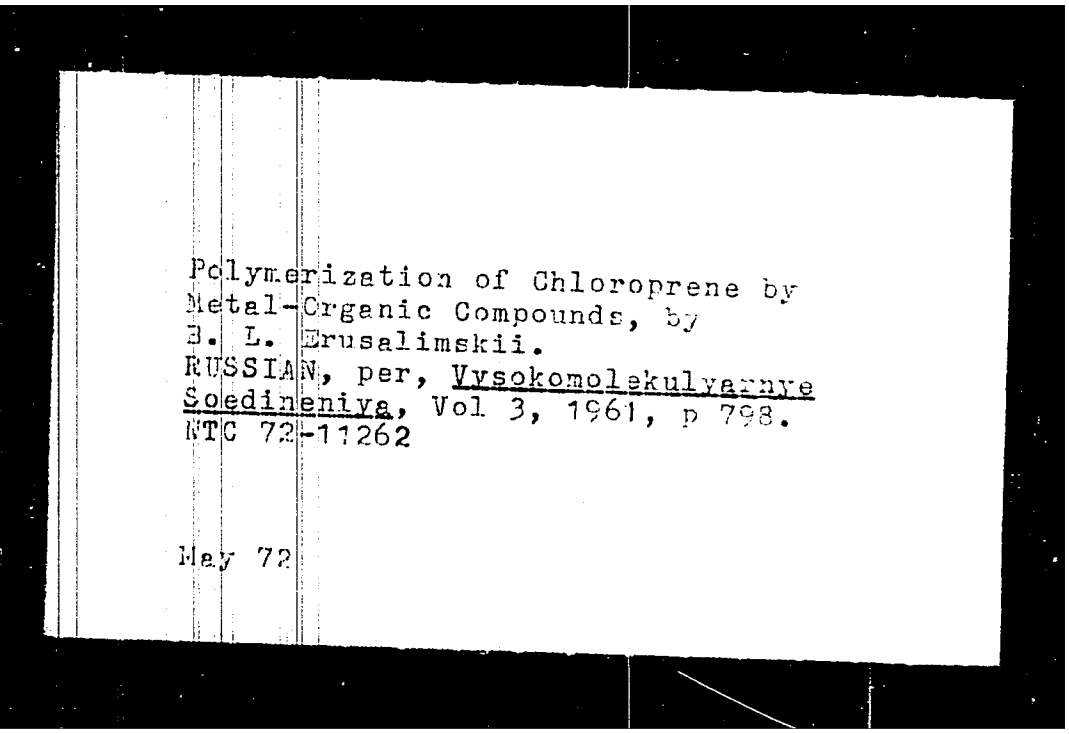

Polymerization of Chloroprene by
Metal-Organic Compounds, by
B. L. Erusalimskii.
RUSSIAN, per, Vysokomolekulyarnye
Soedineniya, Vol 3, 1961, p 798.
NTC 72-11262

May 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Yakovleva, M. K., Sheinker, A. P., and Abkin, A. D.
STUDY OF THE MECHANISM OF RADIATIVE POLYMERIZATION. II. MECHANISM OF CARBONIUM POLYMERIZATION OF STYRENE AND METHYL METHACRYLATE UNDER THE ACTION OF GAMMA RAYS. [1961] 6p.
Order from ATS $9.10 ATS-90N54R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 6, p. [828]-832.

DESCRIPTORS: *Polymerization, *Gamma rays, Radiation effects, *Styrenes, Carbon, Ions, Polymers, *Acrylic resins.

(Chemistry--Organic, TT, v. 7, no. 4)

62-12088

I. Yakovleva, M. K.
II. Sheinker, A. P.
III. Abkin, A. D.
IV. Title: Mechanism ...
V. ATS-90N54R
VI. Associated Technical Services, Inc., East Orange, N. J.

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Nudel'man, Z. N., Sviridova, A. V., and Novikov, A. S.
SYNTHESIS OF LINEAR ALUMINOSILOXANE POLYMERS BY THE SILANOL CONDENSATION METHOD. [1961] 5p.
Order from ATS $9.40 ATS-21N56R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 6, p. 841-846.

DESCRIPTORS: *Aluminum compounds, *Silanes, *Polymers, Synthesis, Condensation reactions

(Chemistry--Organic, TT, v. 7, no. 3)

62-12113

I. Nudel'man, Z. N.
II. Sviridova, A. V.
III. Novikov, A. S.
IV. ATS-21N56R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3094

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

Mikhailov, B. M. and Aronovich, P. M.
ORGANOBORON COMPOUNDS. LXXVII. POLYMERIZATION OF THE BUTYL ESTER OF VINYLBORIC ACID. [1961] 5p.
Order from ATS $8.00 ATS-89N54R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 6, p. 861-864.

DESCRIPTORS: *Organic compounds, *Boron compounds, *Vinyl radicals, *Boric acids, Esters, Polymerization, Acids.

(Chemistry--Organic, TT, v. 7, no. 3)

62-12087

I. Mikhailov, B. M.
II. Aronovich, P. M.
III. Title: Polymerization . . .
IV. ATS-89N54R
V. Associated Technical Services, Incl, East Orange, N. J.

ATS-RJ-3092

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201270077-2

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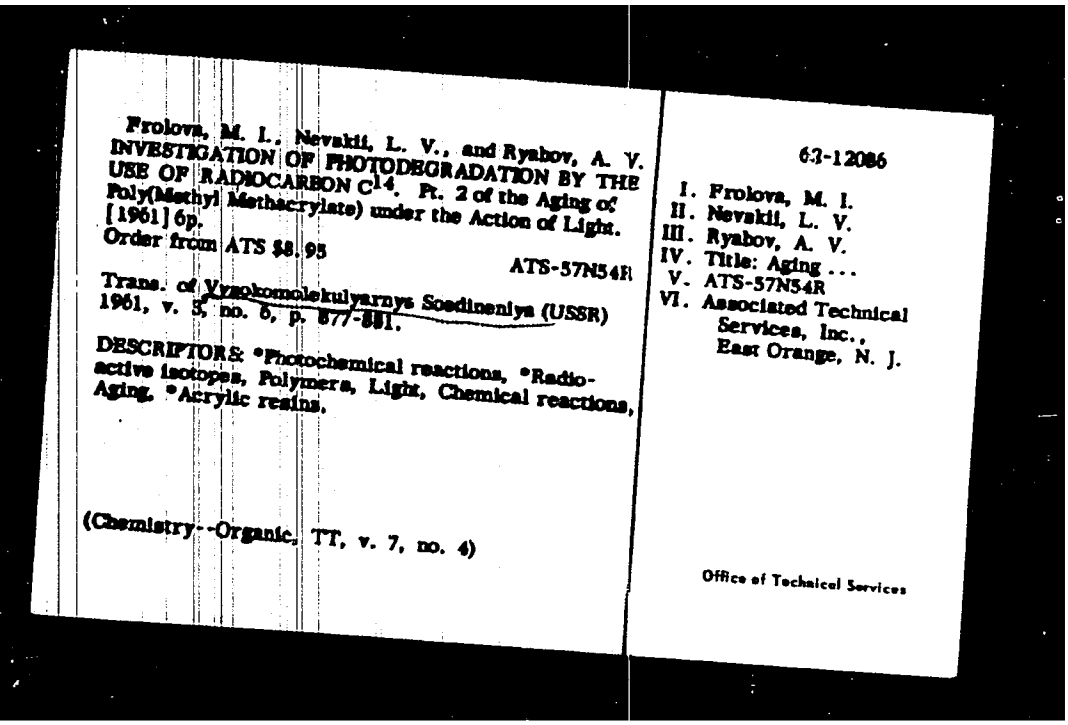

Frolova, M. I., Nevskii, L. V., and Ryabov, A. V. INVESTIGATION OF PHOTODEGRADATION BY THE USE OF RADIOCARBON C^{14}. Pt. 2 of the Aging of Poly(Methyl Methacrylate) under the Action of Light. [1961] 6p.
Order from ATS $8.95 ATS-57N54R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 6, p. 877-881.

DESCRIPTORS: *Photochemical reactions, *Radioactive isotopes, Polymers, Light, Chemical reactions, Aging, *Acrylic resins.

(Chemistry--Organic, TT, v. 7, no. 4)

63-12086

I. Frolova, M. I.
II. Nevskii, L. V.
III. Ryabov, A. V.
IV. Title: Aging ...
V. ATS-57N54R
VI. Associated Technical Services, Inc., East Orange, N. J.

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